

L# ANSWER 54 OF 419 CAPLUS COPYRIGHT 2002 ACS

AN 2000:36647 CAPLUS

DN 132:49880

TI Preparation of N-methylpyrrolidone

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PA China Petrochemical Corp., Peop. Rep. China

SO Faming Zhuanli Shenqing Gongkai Shuomingshu, 8 pp.

CODEN: CNXXEV

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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PI CN 1173492	A	19980218	CN 1996-106430	19960812
CN 1054843	B	20000726		

AB The process comprises dehydrogenation of gaseous 1,4-butanediol in the presence of catalyst at 175-230.degree. and 0.1-1.0 MPa, removing unreacted gas by condensation, and amination of .gamma.-butyrolactone with methylamine and water at 200-300.degree. and 5-10 MPa for 0.5-5 h. The mole ratio of .gamma.-butyrolactone-methylamine-water is 1:1-4:2-9, preferably 1:1-3:3-6. The catalyst is CuaZnCrbZrcOx (a = 0.1-10; b, and/or c = 0.1-5; x = no. of O to satisfy the valency), and reducing with H2 at 150- 300.degree. and 0.1-10 MPa for 5-40 h before use. The dilg. gas is selected from H2, N2, CH4, and CO2, the mole ratio of dilg. gas to 1,4-butanediol is 1-50:1.

IC ICM C07D207-267

DT Patent

LA Chinese